

Supplementary Table 1. Sample descriptions and growth conditions

#	Sample ID	Genotype	Tissue	Age	Photoperiod	Substrate
1	ATGE_1	wild type	cotyledon	7 days	continuous light	soil
2	ATGE_2	wild type	hypocotyl	7 days	continuous light	soil
3	ATGE_3	wild type	root	7 days	continuous light	soil
4	ATGE_4	wild type	shoot apex, vegetative + young leaves	7 days	continuous light	soil
5	ATGE_5	wild type	leaves 1 + 2	7 days	continuous light	soil
6	ATGE_6	wild type	shoot apex, vegetative	7 days	continuous light	soil
7	ATGE_7	wild type	seedling, green parts	7 days	continuous light	soil
8	ATGE_8	wild type	shoot apex, transition (before bolting)	14 days	continuous light	soil
9	ATGE_9	wild type	roots	17 days	continuous light	soil
10	ATGE_10	wild type	rosette leaf #4, 1 cm long	10 days	continuous light	soil
11	ATGE_11	<i>gl1-T</i>	rosette leaf #4, 1 cm long	10 days	continuous light	soil
12	ATGE_12	wild type	rosette leaf # 2	17 days	continuous light	soil
13	ATGE_13	wild type	rosette leaf # 4	17 days	continuous light	soil
14	ATGE_14	wild type	rosette leaf # 6	17 days	continuous light	soil
15	ATGE_15	wild type	rosette leaf # 8	17 days	continuous light	soil
16	ATGE_16	wild type	rosette leaf # 10	17 days	continuous light	soil
17	ATGE_17	wild type	rosette leaf # 12	17 days	continuous light	soil
18	ATGE_18	<i>gl1-T</i>	rosette leaf # 12	17 days	continuous light	soil
19	ATGE_19	wild type	leaf 7, petiole	17 days	continuous light	soil
20	ATGE_20	wild type	leaf 7, proximal half	17 days	continuous light	soil
21	ATGE_21	wild type	leaf 7, distal half	17 days	continuous light	soil
22	ATGE_22	wild type	developmental drift, entire rosette after transition to flowering, but before bolting	21 days	continuous light	soil
23	ATGE_23	wild type	as above	22 days	continuous light	soil
24	ATGE_24	wild type	as above	23 days	continuous light	soil
25	ATGE_25	wild type	senescing leaf	35 days	continuous light	soil
26	ATGE_26	wild type	cauline leaf	21+ days	continuous light	soil
27	ATGE_27	wild type	stem, 2nd internode	21+ days	continuous light	soil
28	ATGE_28	wild type	stem, 1st node	21+ days	continuous light	soil
29	ATGE_29	wild type	shoot apex, inflorescence (after bolting)	21 days	continuous light	soil
30	ATGE_31	wild type	flower, stage 9	21+ days	continuous light	soil
31	ATGE_32	wild type	flower, stage 10/11	21+ days	continuous light	soil
32	ATGE_33	wild type	flower, stage 12	21+ days	continuous light	soil
33	ATGE_34	wild type	flower, stage 12, sepals	21+ days	continuous light	soil
34	ATGE_35	wild type	flower, stage 12, petals	21+ days	continuous light	soil

35	ATGE_36	wild type	flower, stage 12, stamens	21+ days	continuous light	soil
36	ATGE_37	wild type	flower, stage 12, carpels	21+ days	continuous light	soil
37	ATGE_39	wild type	flower, stage 15	21+ days	continuous light	soil
38	ATGE_40	wild type	flower, stage 15, pedicels	21+ days	continuous light	soil
39	ATGE_41	wild type	flower, stage 15, sepals	21+ days	continuous light	soil
40	ATGE_42	wild type	flower, stage 15, petals	21+ days	continuous light	soil
41	ATGE_43	wild type	flower, stage 15, stamen	21+ days	continuous light	soil
42	ATGE_45	wild type	flower, stage 15, carpels	21+ days	continuous light	soil
43	ATGE_46	<i>clv3-7</i>	shoot apex, inflorescence (after bolting)	21+ days	continuous light	soil
44	ATGE_47	<i>lfy-12</i>	shoot apex, inflorescence (after bolting)	21+ days	continuous light	soil
45	ATGE_48	<i>ap1-15</i>	shoot apex, inflorescence (after bolting)	21+ days	continuous light	soil
46	ATGE_49	<i>ap2-6</i>	shoot apex, inflorescence (after bolting)	21+ days	continuous light	soil
47	ATGE_50	<i>ap3-6</i>	shoot apex, inflorescence (after bolting)	21+ days	continuous light	soil
48	ATGE_51	<i>ag-12</i>	shoot apex, inflorescence (after bolting)	21+ days	continuous light	soil
49	ATGE_52	<i>ufo-1</i>	shoot apex, inflorescence (after bolting)	21+ days	continuous light	soil
50	ATGE_53	<i>clv3-7</i>	flower, stage 12; multi-carpel gynoecium; enlarged meristem; increased organ number	21+ days	continuous light	soil
51	ATGE_54	<i>lfy-12</i>	flower, stage 12; shoot characteristics; most organs leaf-like	21+ days	continuous light	soil
52	ATGE_55	<i>ap1-15</i>	flower, stage 12; sepals replaced by leaf-like organs, petals mostly lacking, 2° flowers	21+ days	continuous light	soil
53	ATGE_56	<i>ap2-6</i>	flower, stage 12; no sepals or petals	21+ days	continuous light	soil
54	ATGE_57	<i>ap3-6</i>	flower, stage 12; no petals or stamens	21+ days	continuous light	soil
55	ATGE_58	<i>ag-12</i>	flower, stage 12; no stamens or carpels	21+ days	continuous light	soil
56	ATGE_59	<i>ufo-1</i>	flower, stage 12; filamentous organs in whorls two and three	21+ days	continuous light	soil
57	ATGE_73	wild type	mature pollen	6 wk	continuous light	soil
58	ATGE_76	wild type	siliqua, with seeds stage 3; mid globular to early heart embryo	8 wk	long day (16/8)	soil
59	ATGE_77	wild type	siliqua, with seeds stage 4; early to late heart embryo	8 wk	long day (16/8)	soil
60	ATGE_78	wild type	siliqua, with seeds stage 5; late heart to mid torpedo embryo	8 wk	long day (16/8)	soil
61	ATGE_79	wild type	seed, stage 6; mid to late torpedo embryos	8 wk	long day (16/8)	soil
62	ATGE_81	wild type	seed, stage 7; late torpedo to early walking-stick embryo	8 wk	long day (16/8)	soil
63	ATGE_82	wild type	seed, stage 8; walking-stick to early curled-cotyledons embryo	8 wk	long day (16/8)	soil
64	ATGE_83	wild type	seed, stage 9; curled-cotyledons to early green-cotyledons embryo	8 wk	long day (16/8)	soil
65	ATGE_84	wild type	seed, stage 10; green-cotyledons embryo	8 wk	long day (16/8)	soil
66	ATGE_87	wild type	vegetative rosette	7 days	short day (10/14)	soil
67	ATGE_89	wild type	vegetative rosette	14 days	short day (10/14)	soil
68	ATGE_90	wild type	vegetative rosette	21 days	short day (10/14)	soil
69	ATGE_91	wild type	leaf	15 days	long day (16/8)	1x MS agar, 1% sucrose
70	ATGE_92	wild type	flower	28 days	long day (16/8)	soil
71	ATGE_93	wild type	root	15 days	long day (16/8)	1x MS agar, 1% sucrose

72	ATGE_94	wild type	root	8 days	continuous light	1x MS agar
73	ATGE_95	wild type	root	8 days	continuous light	1x MS agar, 1% sucrose
74	ATGE_96	wild type	seedling, green parts	8 days	continuous light	1x MS agar
75	ATGE_97	wild type	seedling, green parts	8 days	continuous light	1x MS agar, 1% sucrose
76	ATGE_98	wild type	root	21 days	continuous light	1x MS agar
77	ATGE_99	wild type	root	21 days	continuous light	1x MS agar, 1% sucrose
78	ATGE_100	wild type	seedling, green parts	21 days	continuous light	1x MS agar
79	ATGE_101	wild type	seedling, green parts	21 days	continuous light	1x MS agar, 1% sucrose